Advanced Public Transportation Systems Publications Catalog

March, 1996

FEDERAL TRANSIT ADMINISTRATION

OFFICE OF RESEARCH, DEMONSTRATION AND INNOVATION

ADVANCED PUBLIC TRANSPORTATION SYSTEMS DIVISION

United States Department of Transportation
Federal Transit Administration
Office of Research, Demonstration and Innovation
Advanced Public Transportation Systems Division, TRI-1 1
400 7th Street, S.W., Room 6107
Washington, D.C. 20590
(202) 3664995

O:\APTS\PUBLICAT\CATALOG\CATALOG4.SAM
March 26, 1996

Advanced Public Transportation Systems Documents

Advanced Public Transportation Systems: A Bibliography with Abstracts, 1985-1991
This report lists bibliographical information About Advanced Public Transportation Systems Research Projects that are partially or wholly funded by the Federal Transit Administration and not funded by the Administration. Publication availability and Abstracts are included.
Report #DOT-T-92- 18, April 1992.

Advanced Public Transportation Systems Benefits
This document lists the benefits that transit authorities in the United States and Canada have accrued in deploying various Advanced Public Transportation Systems technologies. November 1995.

Advanced Public Transportation Systems: Evaluation Guidelines
This report by Robert Casey and John Collura Volpe National Transportation Systems Center, describes how evaluation guideiines for the Federal Transit Administration's Advanced Public Transportation Systems Operational Tests are implemented and reported. Report #DOT-T-94- 10, January 1994.

Advanced Public Transportation Systems: Project Summaries
This document summarizes the current status of Advanced Public Transportation Systems Research Projects that are partially or wholly funded by the Federal Transit Administration. December 1995.

NEW!

Advanced Public Transportation Systems: The State of the Art. Update '96
This report by Robert Casey, Lawrence Labell, Ross Hohnstrom, and Joe LoVecchio, Volpe National Transportation Systems Center, and Carol Schweiger and Terrance Sheehan EG&G Dynatrend, summarizes the state-of-the-art in the following areas of Advanced Public Transportation Systems: Traveler Information, Transit Management, and Electronic Fare Payment Systems; and Transportation Demand Management Techniques.
Report #DOT-VNTSC-FTA-95 13, January 1996.

Advanced Public Transportation Systems Briefs:

Brief #l: What are Advanced Public Transportation Systems?
A general overview of the Federal Transit Administration's Advanced Public Transportation Systems Program. Spring 1993.

Brief #2: Advanced Public Transportation Systems Evaluation Guidelines
A general overview of the evaluation guideline used to assess the Federal Transit Administration's Advanced Public Transportation Systems Operational Tests. Summer 1993.

Brief #3: Minnesota Guidestar Travlink
This operational test in Minneapolis/St. Paul uses Automatic Vehicle Location, Global Positioning Satellite, and Advanced Traveler Information Systems in the newly constructed I-394 corridor to influence trip-making decisions and travel behavior. January 1994.

Brief #4: California Advanced Public Transportation Systems
A general overview of the following Advanced Public Transportation Systems Operational Tests in California: Los Angeles Smart Traveler, Los Angeles Smart Card, Yosemite Area Regional Transportation Information System, Santa Clara County Smart Paratransit, and Sacramento Rideshare Operational Tests. February 1994.

Brief #5: Bellevue Smart Traveler
This operational test in Washington uses advanced computer and communications technologies to reduce the number of single occupancy vehicles by providing automated ridematching services to Downtown Bellevue commuters through computers, telephones; and electronic pagers and wrist watches. March 1994.

Brief #6: Houston Smart Commuter
This operational test in Texas uses advanced computer and communications technologies to reduce the number of single occupancy vehicles by disseminating real-time traffic and transit information to commuters on the I-45 North corridor through telephones, cable television, and personal computer devices and by providing automated ridematching services to commuters on the I-10 West corridor through a telephone system. June 1994.

Brief #7: Denver Smart Vehicle System
This operational test in Colorado uses Automatic Vehicle Location and Global Positioning Satellite Systems to manage bus fleets more efficiently and to increase schedule adherence. August 1994.

Brief #8: Winston-Salem Mobility Manager
This operational test in North Carolina provide transportation services to the transit users through a mobility management system that automates the dispatching, reporting, and billing of transit services. September '1994.

Brief #9: Los Angeles Smart Traveler Kiosks
This operational test in California uses automated, multimedia kiosks in office complexes, shopping malls, and transportation centers to disseminate real-time traffic and transit information, transit schedules, and ridematching services. December 1994.

NEW!

Brief #l0: Smart Fare Payment Systems for Public Transit
A general overview of electronic fare payment systems in transit. Early automation efforts, read-only passes and fare cards, automated fare card sales, smart fare cards, contact cards, radio frequency coupled proximity cards, and a perspective of the future are discussed. January 1996.

NEW!

Brief #ll: An Intelligent Transportation System for Atlanta for the 1996 Olympics
This operational test in Atlanta is the United States Department of Transportation's first fully implemented Intelligent Transportation Infrastructure. The three major integral components are Intelligent Transportation Systems Metropolitan Atlanta Rapid Transit Authority 1996, Georgia Department of Transportation Advanced Transportation Management System, and the Atlanta Traveler Information Showcase. February 1996.

Advanced Traveler Aid Systems for Public Transportation
This report by Shinya Kikuchi describes the concept, structure, technology, and implementation of the Intelligent Transit Mobility System which is an innovative system to improve public transportation information dissemination. Report #DOT-T-95-07, September 1994.

Bellevue Smart Traveler and Cellular Telecommunications
This report by Denise Pieratti, Mark Haselkom, and Cathy Blumenthal, Bellevue Transportation Management Association, discusses the findings of the Bellevue Smart Traveler Operational Test in Washington. This operational test uses advanced computer and communications technologies to reduce the number of single occupancy vehicles by providing automated ridematching services through computers, telephones; and electronic pagers and wrist watches to Downtown Bellevue commuters. Report #DOT-T-93-36, May 1993.

California Smart Traveler System
This report by Robert W. Behnke, Aegis Transportation Information Systems, describes how audiotex and videotex terminals can be used to develop parataxis and carpools and how they can be integrated with conventional transit, paratransit, and ridesharing to reduce traffic congestion, gasoline consumption, air pollution and mobility problems at a low cost to the taxpayer. Report #DOT-T-92- 16, February 1992.

Cost Estimates for Selected California Smart Traveler Operational Tests
This supplemental report to the ***California Smart Traveler System*** by Robert W. Behnke, Aegis Transportation Information Systems, estimates the cost of conducting the California Smart Traveler Operational Tests in San Ramon/Pleasanton, University of California at **Los** Angeles, and Northern San Diego. A cost comparison of implementing Smart Traveler concepts versus the expansion of conventional transit services is included.
Report #DOT-T-93-3 1, March 1993.

German "Smart-Bus" Systems: Potential for Application in Portland, Oregon, Volume 1, Technical Report
This report by Robert W. Behnke, Aegis Transportation Information Systems, describes how new telephone-based information services can be used to enhance the cost-effectiveness of Germany's Flexible Operations Command and Control System, a bus route deviation system. Report #DOT-T-93-25, January 1993.

German "Smart-Bus" Systems: Potential for Application in Portland, Oregon, Volume 2, Appendices
This supplemental report to the German *"Smart-Bus" Systems: Potential for Application in Portland, Oregon, Volume 1, Technical Report* by Robert W. Behnke, Aegis Transportation Information Systems, estimates the cost of conducting the German "Smart Bus System Operational Test in Portland, Oregon. Report #DOT-T-93-26, January 1993.

Intelligent Transportation Systems
This brochure provides general information about Traveler Information, Transit Management, and Electronic Fare Payment Systems, the transit components of the Intelligent Transportation Infrastructure. December 1995.

NEW!

Intelligent Transportation' Systems Dictionary
This document defines commonly used Intelligent Transportation Systems terminology. Includes transit, traffic signal, and communications terminology. April 1996.

Mobility Management and Market Oriented Local Transportation
This report by Jeffrey A. Parker & Associates and the International Taxicab and Livery Association describes the feasibility and cost-effectiveness of integrating local transportation services offered by multiple providers. Report #DOT-T-92-7, March 1991.

Review and Assessment of En-Route Transit Information Systems
This report by EG&G Dynatrend reviews the current efforts to design, develop, and implement en-route transit information systems, and includes a discussion of the state-of-the-art in en-route transit information systems with respect to the User Service Development Plan identified in the National *Program for ITS: Volume 2.* Report #DOT-T-96-03, July 1995.

Review of and Preliminary Guidelines for Integrating Transit into Transportation Management Centers
This report by Carol L. Schweiger, EG&G Dynatrend, investigates the integration of traffic and transit operations at several Transportation Management Centers in the United States. Report #DOT-T-94-25, July 1994.

NEW!

Smart Cards for Transit: Multi-Use Remotely Interrogated Stored-Data Cards for Fare and Toll Payment
This report describes the requirements and differences between electronic fare collection and toll payment systems.
Report #FTA-MA-26-0020-95- **1, April 1996.**

Smarter Transit Systems Can Lead to Smarter Riders
This interview with Ronald J. Fisher, Federal Transit Administration, describes how Intelligent Transportation Systems can help transit customers. PPTN Network News, September 1993.

The Transit Opportunity in Intelligent Vehicle Highway Systems
This paper by Ronald J. Fisher and Sean Ricketson, Federal Transit Administration, describes how Intelligent Transportation Systems can improve transit operations. February 10, 1994.

Transit Geographical Information Systems
This brochure describes the Federal Transit Administration's Transit Geographical Information Systems Program, part of the National Spatial Data Infrastructure. August 1995.

White Paper-on the National ITS System Architecture: Transit Issues and Recommendations
This paper by David Caskey and Philip Heermann, Sandia National Laboratories, presents a number of issues relating to the transit aspects of the National ITS System Architecture. October 1995.

Underlined document titles are available on FTA's Internet home page (http://www.fta.dot.gov)

Related Advanced Public Transportation Systems Documents

Accelerating Intelligent Transportation Systems Deployment: A Report from the United States Department of Transportation

This paper by Christine Johnson, Director of the Joint Program Office, describes the federal government and local transportation professionals roles in deploying and integrating Intelligent Transportation Systems. November 1995.

Advanced Traveler Information Systems for Rural Areas

This paper by JHK & Associates summarizes the findings of a preliminary study that guides federal programs with respect to Intelligent Transportation Systems technologies in rural and small urban areas and provides guidelines for Advanced Traveler Information Systems implementation by state and local governments to meet rural traveler's needs. January 1995.

An Integrated Intelligent Transportation Infrastructure for Your Metropolitan Area

This brochure describes how the system integration of traffic signal control, freeway management, incident management, traveler information, transit management, electronic payment, and electronic toll collection systems can benefit the public. December 1995.

Assessment of Intelligent Transportation Systems Benefits: Early Results

This report by Donald Roberts and Dwight Shank, Mitre, provides an early assessment of the ongoing uses and benefits of Intelligent Transportation Systems. August 1995.

NEW!

Intelligent Transportation Systems Projects

This report is a comprehensive listing of Intelligent Transportation Systems research projects in the United States that are wholly or partially funded by the Federal Highway Administration, Federal Transit Administration, and the National Highway Traffic Safety Administration. January 1996.

NEW!

Operation TimeSaver: Building the Intelligent Transportation Infrastructure

This brochure provides a general overview of Operation Timesaver-Secretary Pena's National Intelligent Transportation Systems Deployment Goal. January 1996.

NEW!

Operation Timesaver: Taking Transportation into the 21st Century

This paper provides detailed information about the goals, costs, and benefits of Operation Timesaver. January 1996.

NEW!

Operation TimeSaver: Intelligent Transportation Infrastructure Benefits - Expected and Experienced

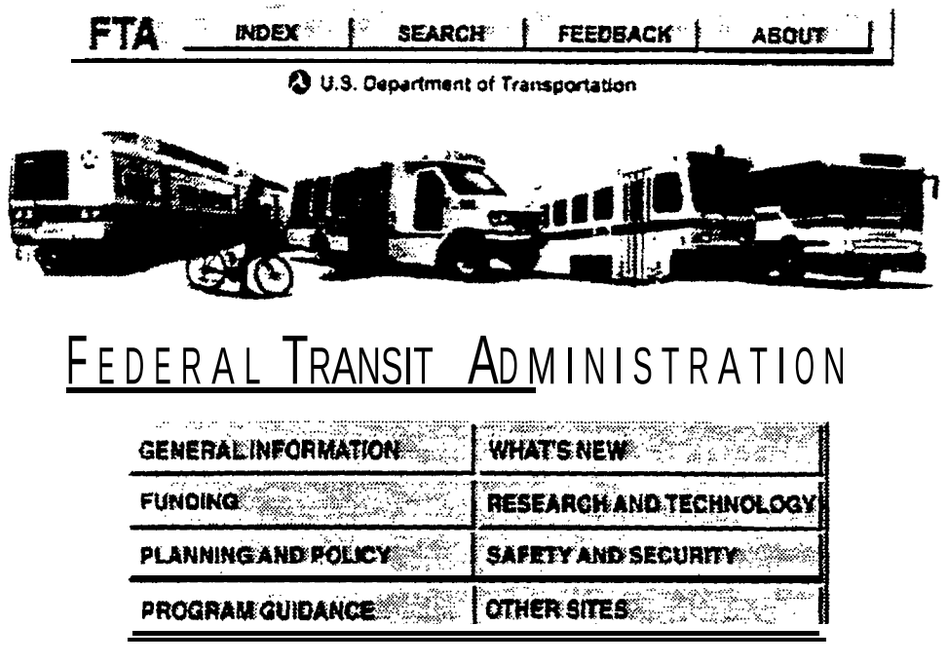
This report documents the benefits of constructing an Intelligent Transportation Infrastructure. January 1996.

NEW!

Operation Timesaver: Secretary Pena's Remarks at the 1996 Transportation Research Board Annual Meeting

A transcription of the Secretary's remarks at the 1996 Transportation Research Board Annual Meeting in Washington, D.C. January 1996.

FTA information is available on the Internet World Wide Web



[Index][Search][Feedback][About][U.S. Department of Transportation]
[General Information][What' s New][Funding][Research and Technology][Planning and Policy]
(Safety and Security][Program Guidance][Other Sites]

ADDRESS: http://www.fta.dot.gov

- New Information added every week
- We are Committed to Evolving a Non-Bureaucratic User-Friendly Format
- We Provide Up-To-Date Information about:
  - Public Transportation
  - FTA Supported Research and other Activities
  - Programs and Initiatives
  - On-Line Access to FTA Data

APTS PUBLICATIONS ORDER FORM

To receive any of these publications (no charge for shipping), please check the appropriate box(es) and send to the address listed at the bottom of the page. Underlined document titles are available on FTA's Internet home page (http://www.fta.dotgov).

Advanced Public Transportation Systems Documents

- Advanced Public Transportation Systems: A Bibliography with Abstracts, 1985-1991
- Advanced Public Transportation Systems Benefits
- Advanced Public Transportation Systems: Evaluation Guidelines
- Advanced Public Transportation Systems: Project Summaries
- Advanced Public Transportation Systems: The State of the Art, Update '96
- Brief #l: What are Advanced Public Transportation Systems?
- Brief #2: Advanced Public Transportation Systems Evaluation Guidelines
- Brief #3: Minnesota Guidestar Travlink
- Brief #4: California Advanced Public Transportation Systems
- Brief #5: Bellevue Smart Traveler
- Brief #6: Houston Smart Commuter
- Brief #7: Denver Smart Vehicle System
- Brief #8: Winston-Salem Mobility Manager
- Brief #9: Los Angeles Smart Traveler Kiosks
- Brief #10: Smart Fare Payment Systems for Public Transit
- Brief #ll: An Intelligent Transportation System for Atlanta for the 1996 Olympics
- Advanced Traveler Aid Systems for Public Transportation
- Bellevue Smart Traveler and Cellular Telecommunications
- California Smart Traveler System
- Cost Estimates for Selected California Smart Traveler Operational Tests
- German "Smart-Bus" Systems: Potential for Application in Portland, Oregon, Volume 1, Technical Report
- German "Smart-Bus" Systems: Potential for Application in Portland, Oregon, Volume 2, Appendices
- Intelligent Transportation Systems
- Intelligent Transportation Systems Dictionary
- Mobility Management and Market Oriented Local Transportation
- Review and Assessment of En-Route Transit Information Systems
- Review of and Preliminary Guidelines for Integrating Transit into Transportation Management Centers
- Smart Cards for Transit: Multi-Use Remotely Interrogated Stored-Data Cards for Fare and Toll Payment
- Smarter Transit Systems Can Lead to Smarter Riders
- Tbe Transit Opportunity in Intelligent Vehicle Highway Systems
- Transit Geographical Information Systems
- White Paper on the National ITS System Architecture: Transit Issues and Recommendations

Related Advanced Public Transportation Systems Documents

- Accelerating Intelligent Transportation Systems Deployment: A Report from the United States Department of Transportation
- Advanced Traveler Information Systems for Rural Areas
- An Integrated Intelligent Transportation lnfrastructure for Your Metropolitan Area
- Assessment of Intelligent Transportation Systems Benefits: Early Results
- Intelligent Transportation Systems Projects
- Operation TimeSaver: Building the Intelligent Transportation Infrastructure
- Operation TimeSaver: Taking Transportation into the 21st Century
- Operation TimeSaver: Intelligent Transportation Infrastructure Benefits - Expected and Experienced
- Operation TimeSaver: Secretary Pena's Remarks a the 1996 Transportation Research Board Annual Meeting

Ship to:

Name:

Title:

Company:

Address:

City/State/Zip:

Tel:

E-mail:

W. Raymond Keng - Publications Manager, TRI-11 • Federal Transit Administration
400 7th Street, S.W. • Washington D.C. 20590 • Tel (202) 3666667 • E-mail: kengr@tts.dot.gov